

#### Government of India Ministry of Earth Sciences



India Meteorological Department

## PRESS RELEASE-8

## Time of issue: 1400 hours IST

Dated: 15<sup>th</sup> September, 2024

## Sub: Deep Depression over Gangetic West Bengal

Yesterday's **Deep Depression** over Bangladesh and adjoining Gangetic West Bengal followed a looping track over Gangetic West Bengal during noon to midnight of yesterday, the 14th September 2024. Thereafter, it moved west-northwestwards and lay centered at 0830 hours IST of today, the 15th September 2024, over the same region near latitude 22.6° N and longitude 87.8° E, about 60 km west of Kolkata (West Bengal), 110 km southeast of Bankura (West Bengal), 170 km east of Jamshedpur (Jharkhand) and 270 km east-southeast of Ranchi (Jharkhand).

It is likely to move slowly, nearly westwards across Gangetic West Bengal and maintain its intensity of deep depression till evening of today, the 15th September. Thereafter, it is likely to weaken gradually into a depression and move nearly westwards across Jharkhand and North Chhattisgarh during subsequent 48 hours.

The deep depression is under continuous surveillance by the Doppler Weather Radar at Kolkata.

Date/Time (IST)	Position	Maximum Sustained Surface Wind	Category Of Cyclonic
	(Lat. °N/ Long. °E)	Speed (Kmph)	Disturbance
15.09.24/0830	22.6/87.8	50-60 gusting to 70	Deep Depression
15.09.24/1730	22.7/87.3	50-60 gusting to 70	Deep Depression
16.09.24/0530	22.7/86.4	45-55 gusting to 65	Depression
16.09.24/1730	22.8/85.0	40-50 gusting to 60	Depression
17.09.24/0530	23.1/83.3	35-45 gusting to 55	Depression

Forecast track and intensity are given in the following table:

## Warnings:

### (i) Rainfall warning

**Gangetic West Bengal (including Kolkata):** Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at few places over Gangetic West Bengal and **extremely heavy rainfall** at isolated places over south Gangetic West Bengal on 15<sup>th</sup>; **heavy rainfall** at isolated places on 16<sup>th</sup> September.

**Sub-Himalayan West Bengal:** Light to moderate rainfall at most places is very likely with **heavy rainfall** at isolated places on 15<sup>th</sup> September.

**Odisha:** Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at a few places over Odisha and **extremely heavy rainfall** at isolated places over north Odisha on 15<sup>th</sup> and **heavy to very heavy rainfall** at isolated places on 16<sup>th</sup> September.

**Jharkhand:** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places and **extremely heavy rainfall** over south Jharkhand on 15<sup>th</sup> and **heavy to very heavy rainfall** at isolated places over Jharkhand 16<sup>th</sup> September.

**Bihar:** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places very likely on 15<sup>th</sup> & 16<sup>th</sup> and **heavy rainfall** at isolated places over Bihar 17<sup>th</sup> September.

**Chhattisgarh:** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places on 15<sup>th</sup> & 16<sup>th</sup> September and heavy rainfall at isolated places on 17<sup>th</sup> September.

**East Madhya Pradesh:** Light to moderate rainfall at most places with heavy rainfall at isolated places on  $15^{th}$ , heavy to very heavy rainfall at isolated places  $16^{th} \& 17^{th}$  September.

West Madhya Pradesh: Light to moderate rainfall at most places with heavy rainfall at isolated places on 17<sup>th</sup> & 18<sup>th</sup> September.

**East Uttar Pradesh:** Light to moderate rainfall at most places with **heavy rainfall** at isolated places on 16<sup>th</sup> & 17<sup>th</sup> September.

**Mizoram & Tripura:** Light to moderate rainfall at most places is very likely with isolated **heavy rainfall** during 15<sup>th</sup> -16<sup>th</sup> September.

Assam & Meghalaya: Light to moderate rainfall at many places is very likely with isolated heavy rainfall on 15<sup>th</sup> September.

(ii) Flash Flood Guidance: (Graphics Attached)

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 16-09-2024:

Low flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-division during next 24 hours.

Odisha - Balasore, Deogarh, Keonjhar, Mayurbhanj and Sundargarh districts.

**Gangetic West Bengal -** Bankura, Bardhaman, Birbhum, East & West Medinipur, Hoogly, Murshidabad, Nadia, North & South 24 Praganas and Purulia districts.

**Jharkhand** - Chatra, East Singhbhum, Gumla, Hazaribagh, Khunti, Koderma, Latehar, Lohardaga, Ramgarh, Ranchi, Saraikela, Simdega and West Singhbhum districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.

#### (iii) Wind warning:

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to over north Bay of Bengal and along & off Bangladesh, West Bengal, and north Odisha coasts till night of  $15^{\text{th}}$  September. It is likely to become 40-50 kmph gusting to 60 kmph till evening of  $16^{\text{th}}$  September and decrease thereafter.

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over Gangetic West Bengal and adjoining Jharkhand & north Odisha till night of 15<sup>th</sup> September, decrease gradually becoming 45-55 kmph gusting to 65 kmph likely over Jharkhand and adjoining Gangetic West Bengal & north Odisha from morning of 16<sup>th</sup> September and decrease thereafter.

#### (iv) Sea Condition:

Rough to very rough sea condition is very likely to prevail over north Bay of Bengal and along & off West Bengal-Odisha coasts till night of 15<sup>th</sup> September.

Subsequently, Rough Sea condition is likely to prevail over north Bay of Bengal and along & off West Bengal-Odisha coasts from morning of 16<sup>th</sup> September and improve thereafter.

#### (iv) Fishermen Warning:

Fishermen are advised not to venture into north Bay of Bengal and along & off Bangladesh, West Bengal, and Odisha coasts till 16<sup>th</sup> September.

## Impact Expected (West Bengal (including Kolkata), Odisha, Bihar, Jharkhand, Chhattisgarh due to heavy rainfall and strong winds)

 $\checkmark$  Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.

 $\checkmark$  Occasional reduction in visibility due to heavy rainfall.

 $\checkmark$  Disruption of traffic in major cities and roadways due to water logging in roads and poor visibility due to heavy rain leading to increased travel time and incidents

- ✓ Likely disruption of marine and inland water transportation like small boats and trawlers.
- $\checkmark \qquad \text{Minor damage to kutcha roads.}$
- ✓ Possibilities of damage to vulnerable structure.
- ✓ Localized Landslides/Mudslides/landslips/mud slips/land sinks/mud sinks.
- Damage to horticulture and standing crops in some areas due to inundation and wind.

✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of

CWC)

#### Action Suggested (West Bengal (including Kolkata), Odisha, Bihar, Jharkhand, Chhattisgarh)

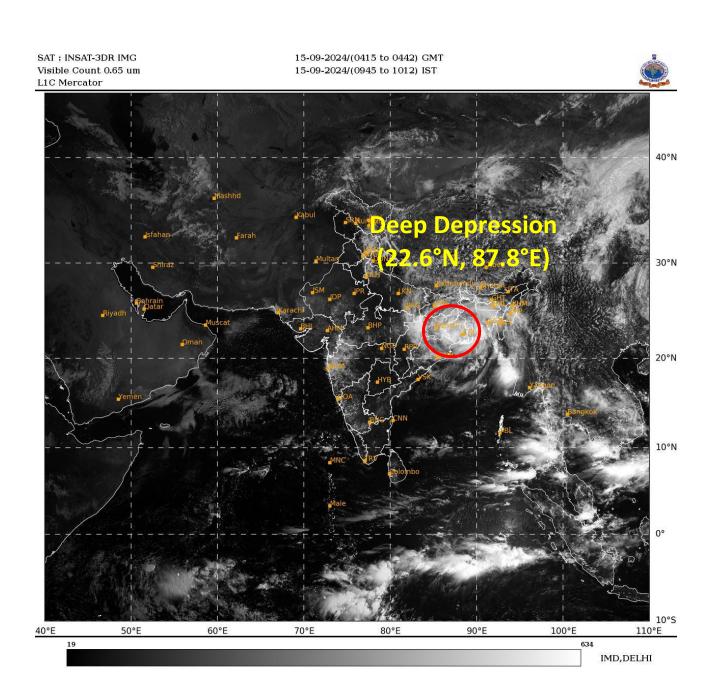
- ✓ Fishermen are advised not to venture into north Bay of Bengal till16th September.
- ✓ Judicious regulation of surface transports including railways and roadways and onshore/offshore activities.
- ✓ Check for traffic congestion on your route before leaving for your destination.
- $\checkmark$  Follow any traffic advisories that are issued in this regard.
- $\checkmark$  Avoid going to areas that face the water logging problems often.
- $\checkmark$  Avoid staying in vulnerable structure.

#### Agromet advisories for Heavy Rainfall likely over various parts of the country

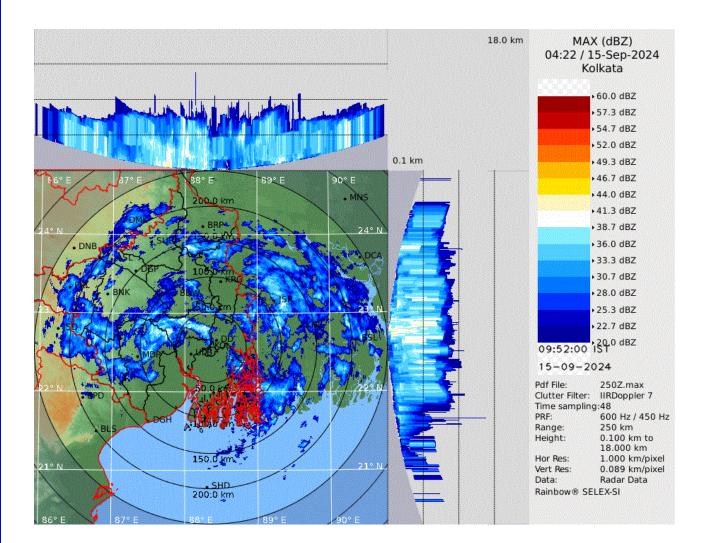
- $\checkmark$  Provide mechanical support to horticultural crops & staking to vegetables.
- $\checkmark$  Keep the harvested produce at safer place.

## All associated graphics have been kept in Annexure-I. The 24 hours accumulated realised rainfall ( $\geq 7$ cm) ending at 0830 hours IST of 13th September is kept in Annexure-II.

Next Press Release will be issued at 1430 hours IST of tomorrow, the 16th September, 2024.

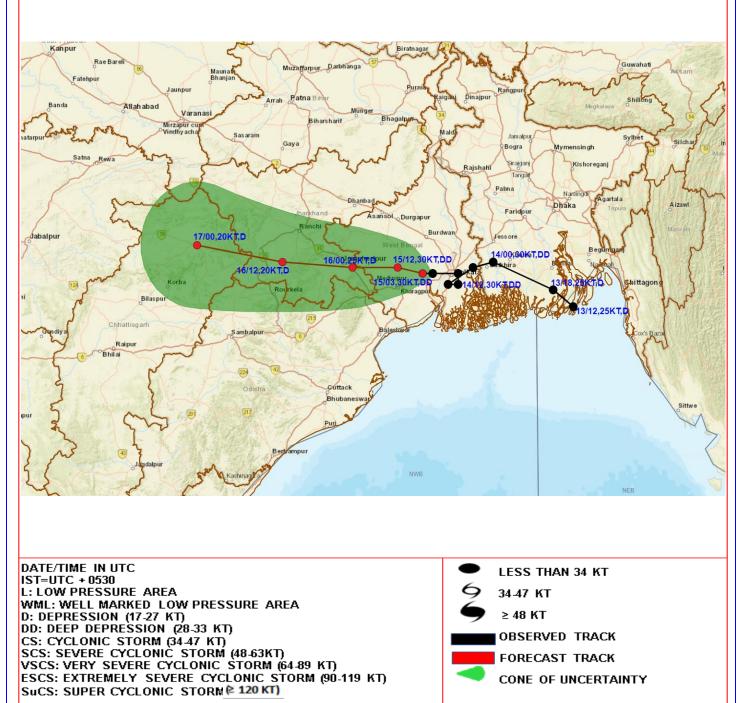


## Kolkata Radar Image

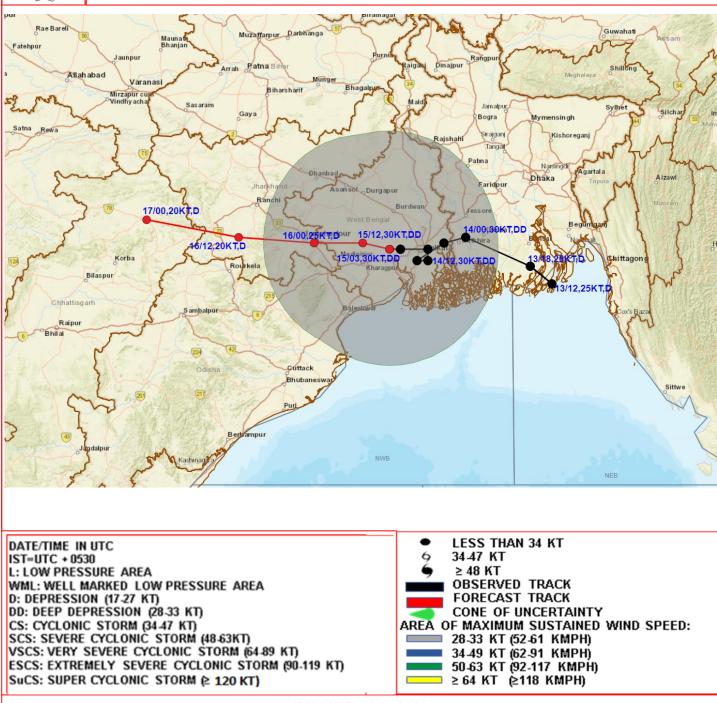




OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION OVER GANGETIC WEST BENGAL BASED ON 0300 UTC (0830 IST) OF 15<sup>TH</sup> SEPTEMBER, 2024.

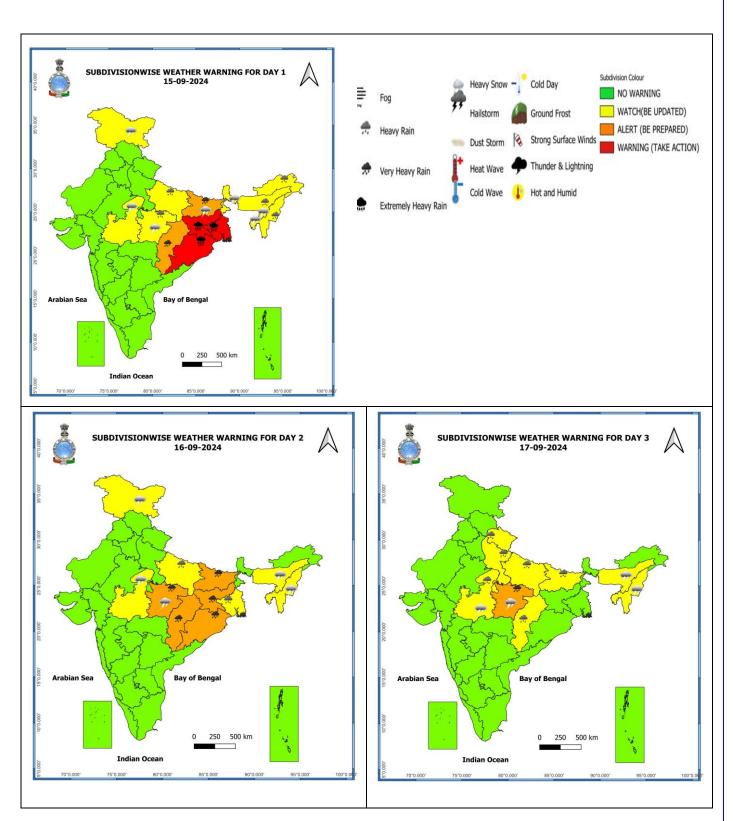


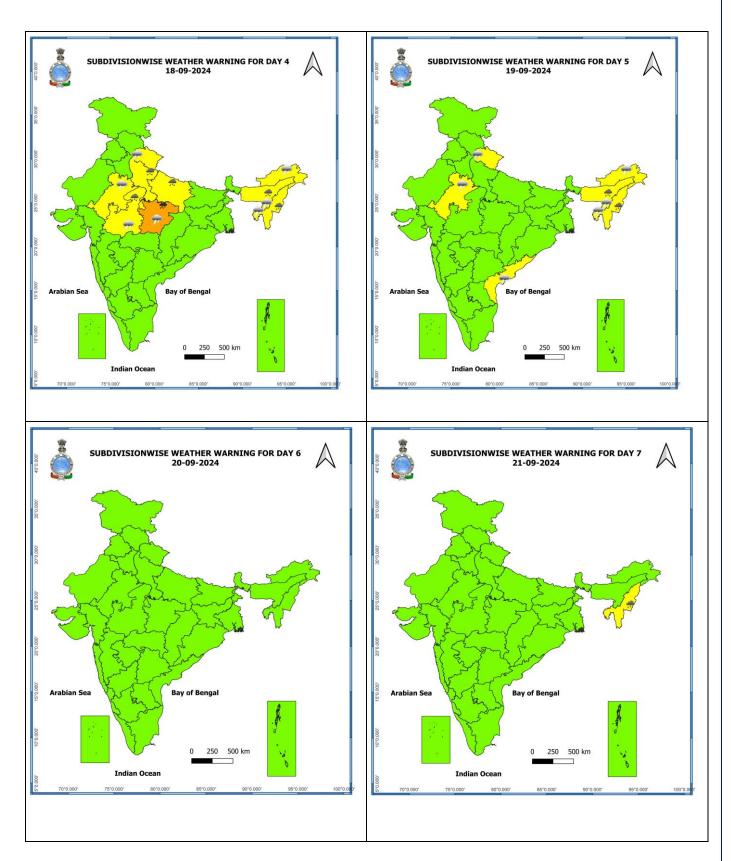
OBSERVED AND FORECAST TRACK ALONG WITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER GANGETIC WEST BENGAL BASED ON 0300 UTC (0830 IST) OF 15<sup>TH</sup> SEPTEMBER, 2024



IMPACT OVER THE SEA			
MSW (knot/kmph)	Impact	Action	
28-33 (52-61)	Very rough seas	Total suspension of fishing operations	
34-49 (62-91)	High to very high seas	Total suspension of fishing operations	
50-63 (92-117)	Very high seas	Total suspension of fishing operations	
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations	

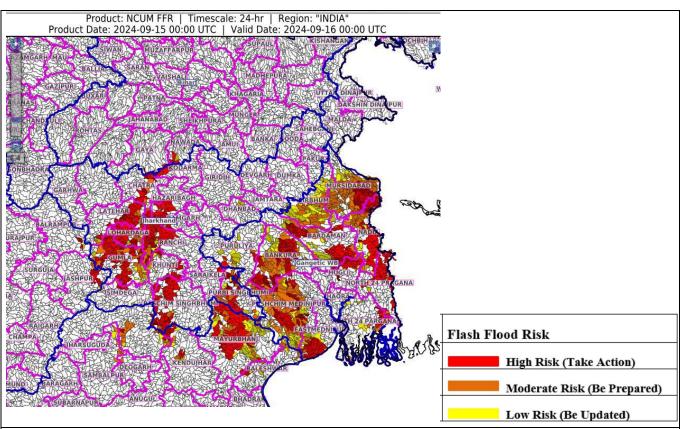
## **Warning Graphics**





- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases

## **Flash Flood Guidance**



24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 16-09-2024:

**Low flash flood risk** likely over few watersheds & neighbourhoods of following Met Sub-division during next 24 hours.

Odisha - Baleshwar, Deogarh, Kendujhar, Mayurbhanj and Sundargarh districts.

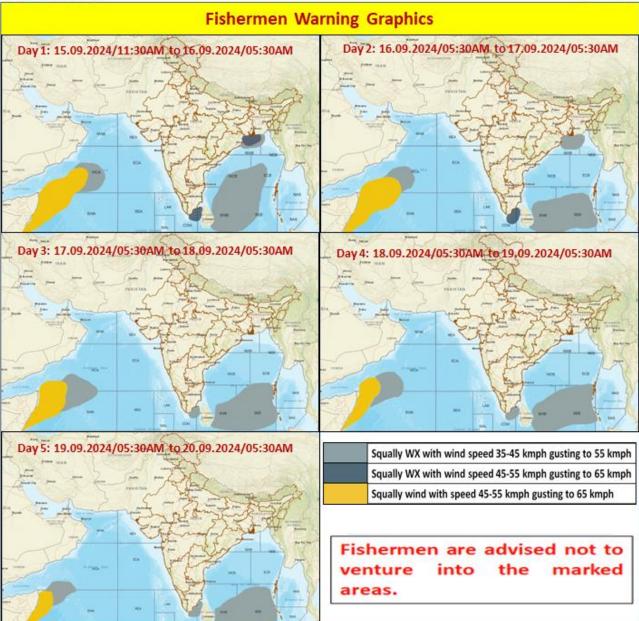
**Gangetic West Bengal -** Bankura, Bardhaman, Birbhum, East & West Mednipur, Hoogly, Murshidabad, Nadia, North & South 24 Praganas and Puruliya districts.

**Jharkhand -** Chatra, East Singhbhum, Gumla, Hazaribagh, Khunti, Koderma, Latehar, Lohardaga, Ramgarh, Ranchi, Saraikela, Simdega and West Singhbhum districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.







#### **Annexure-I**

# Significant amount of rainfall (from 0830 hours IST of 14.09.2024 to 0830 hours IST of 15.09.2024) (in cm):

#### **Gangetic West Bengal:**

Jhargram (dist Jhargram) 19, Contai (dist East Midnapore) 15, Amtala (dist Murshidabad) 14, Kharidwar (dist Purulia) 13, Bankura (dist Bankura) 13, Lalgarh (dist Jhargram) 13, Kansabati Dam (dist Bankura) 13, Kalyani Smo (dist Nadia) 12, Tusuma (dist Purulia) 12, Digha (dist East Midnapore) 12, Asansol (dist Paschim Bardhaman) 11, Phulberia (dist Purulia) 11, D.P.Ghat (dist Jhargram) 11, Asansol(cwc) (dist Paschim Bardhaman) 11, Bagati (dist Hooghly) 11, Bankura (dist Bankura) 11, Amfu Kharagpur (dist West Midnapore) 10, Panagarh (dist Paschim Bardhaman) 9, Barrackpur (dist North 24 Parganas) 9, Harinkhola (dist Hooghly) 9, Narayanpur (dist Birbhum) 9, Debagram (dist Nadia) 9, Mohanpur (dist West Midnapore) 9, Basirhat (dist North 24 Parganas) 8, Midnapore (dist West Midnapore) 8, Burnpur (dist Paschim Bardhaman) 8, Sri Niketan (dist Birbhum) 8, Purihansa (dist Purulia) 8, Durgapur (dist Paschim Bardhaman) 8, Hetampur (dist Birbhum) 8, Suri (dist Birbhum) 7, Salar (dist Murshidabad) 7, Luchipur (dist Paschim Bardhaman) 7, Burdwan (dist Purba Bardhaman) 7, Labpur (dist Birbhum) 7, Amfu Kakdwip (dist South 24 Parganas) 7, Rajnagar (dist Birbhum) 7, Gheropara (dist Birbhum) 7

**Jharkhand:** Meral (dist Garhwa)-15,Garhwa (dist Garhwa) 14, Burmu (dist Ranchi) 11, Daltonganj (dist Palamu) 11, Chakulia (dist East Singbhum) 11, Potka (dist East Singbhum) 9, Dhalbhumgarh (dist East Singbhum) 9, Garu (dist Latehar) 9, Palamu Dtg Kvk Aws (dist Palamu) 9, Latehar Balumat Kvk Aws (dist Latehar) 9, Panchet (dist Dhanbad) 8, Boram (dist East Singbhum) 7, Panchet Dvc (dist Dhanbad) 7, Rajdhanwar (dist Giridih) 7, Nandadih (dist Giridih) 7, Maithon Dvc (dist Dhanbad) 7, Gurabandha (dist East Singbhum) 7, Chandwa (dist Latehar) 7, Hendigir (dist Hazaribag) 7, Messenjor (dist Dumka) 7, Saryu (dist Latehar) 7,

**Odisha:** Bhograi (Balasore) 13, Rajghat (Balasore) 12, Suliapada (Mayurbhanj) 11, Udala (Mayurbhanj) 10, Jaleswar (Balasore) 10, Tensa (Sundargarh) 9, Rasagovindapur (Mayurbhanj) 8, Betanati (Mayurbhanj) 8, Chandua Kuliana (Mayurbhanj) 8, Kaptipada (Mayurbhanj) 8, Jamsolaghat (Mayurbhanj) 8, Bangiriposi (Mayurbhanj) 8, Sarasakana (Mayurbhanj) 7, Bijatala (Mayurbhanj) 7, G B Nagar (Mayurbhanj) 7,

West Uttar Pradesh: Saharanpur (dist Saharanpur) 10,

Chhattisgarh: Kusmi (dist Balrampur) 7,

Sub-Himalayan West Bengal: Darjeeling (dist Darjeeling) 7